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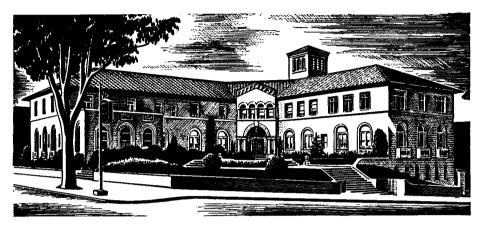
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This page is the second of a series on vitamin deficiencies presented by the research division of The Upjohn Company because of the profession's widespread interest in the subject. A two-page insert on the same subject appears in the February 17 issue of The Journal of the American Medical Association.

Manifestations of Vitamin A Deficiency

One of the early manifestations of vitamin A deficiency is nyctalopia, a loss of visual acuity in dim light. While several pathologic states (retinitis pigmentosa, toxic amblyopia, detachment of the retina) also produce night blindness, vitamin A deficiency is probably the most frequent cause. After exposure to the blinding glare of a bright light the normal eye adapts itself relatively quickly to lowered illumination. In nyctalopia due to vitamin A deficiency, the time

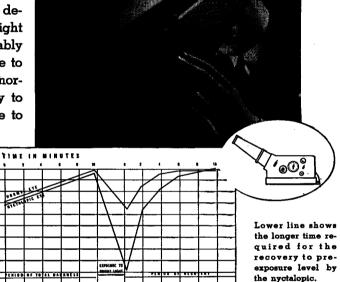
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required for recovery of visual acuity is longer.

In otherwise normal eyes, measurement of capacity for dark adaptation by means of the biophotometer has been suggested as a method of discovering vitamin A deficiency.



Pathologic epithelial changes produced by vitamin A deficiency are illustrated by the photomicrographs of turbinate mucous membrane taken from normal and vitamin A deficient monkeys. The progressive pathologic

process consists of atrophy of the epithelium, reparative proliferation of the basal cells and finally, as depicted in the upper photograph, replacement of the normal by a stratified, keratinizing epithelium.

Above, stratified, keratinizing epithelium of the turbinate mucous membrane of a vitamin A deficient monkey; at right, normal mucose.

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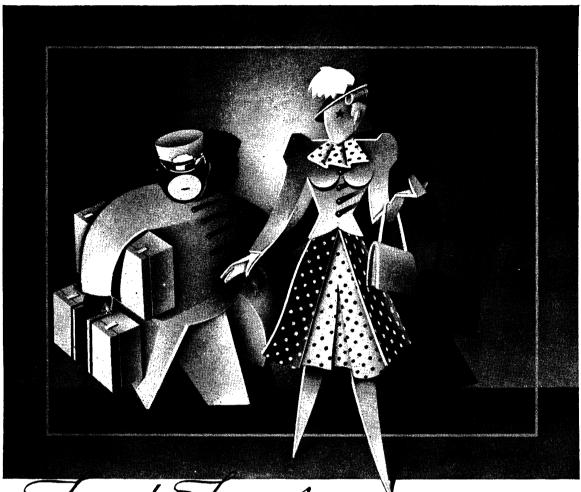
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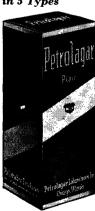
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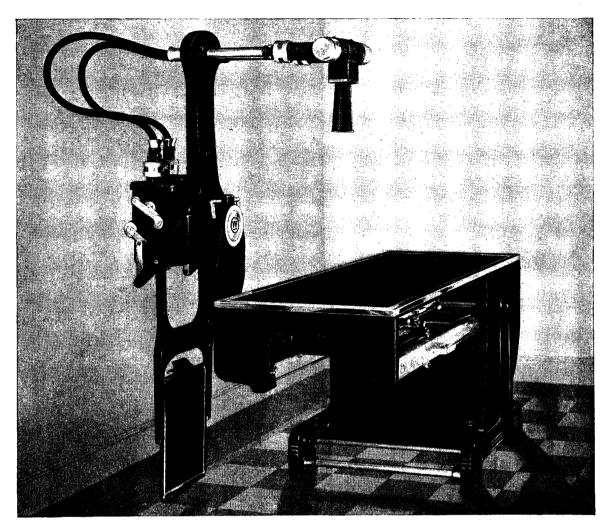
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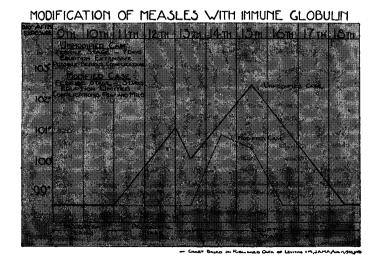
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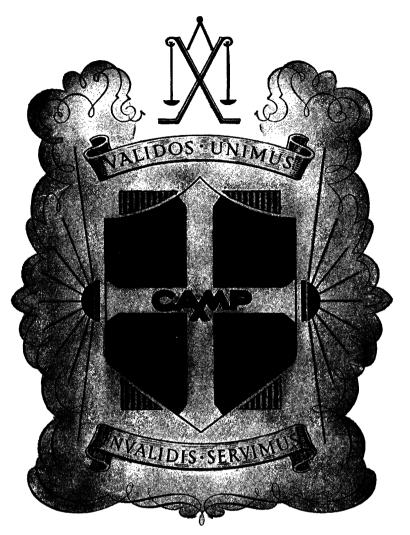
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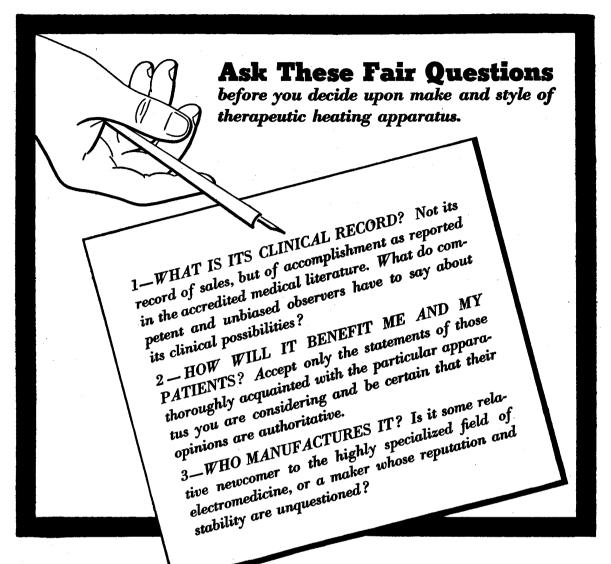


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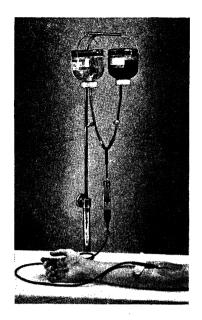
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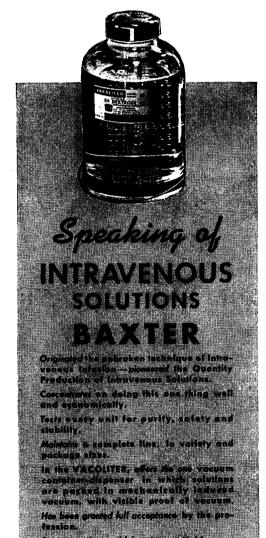
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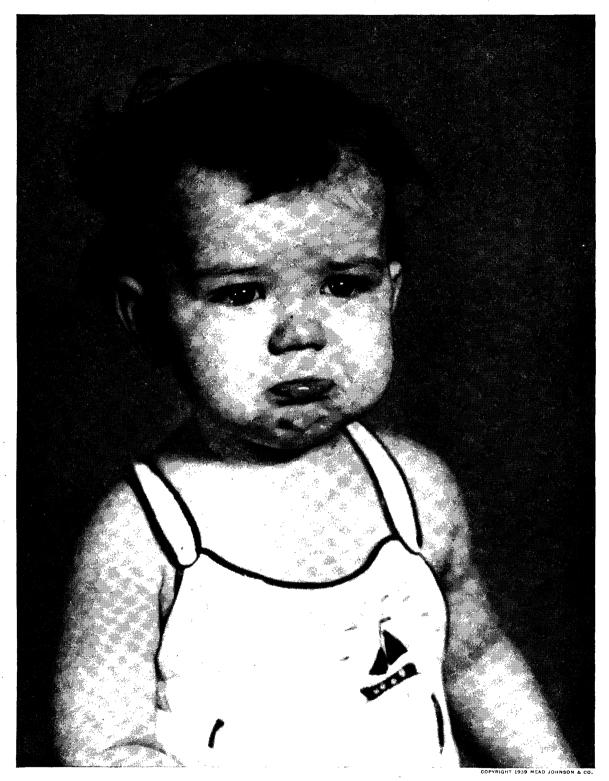
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METHODS FOR QUANTITATIVE ESTIMATION OF THE VITAMINS

V. The Determination of Riboflavin

● In 1929, the so-called "water-soluble vitamin B" was considered to be composed of two factors, heat-labile vitamin B and heat-stable vitamin G (American nomenclature). General recognition of the existence of vitamin G stimulated research on methods for its quantitative estimation. As a result, a number of bioassay methods for vitamin G were evolved (1, 2) and widely used to determine the vitamin G values of foods.

By 1937, however, it was evident that the heat stable fraction of the vitamin B complex was not a single entity, but rather a mixture of essential factors, among them the yellow-green fluorescent pigment, riboflavin (3). Hence, another chemical compound has recently attained significance in human nutrition (2, 4). The establishment of specific methods for the determination of riboflavin in foods immediately became of interest to workers in the field of nutrition.

As to methods for estimation of riboflavin, it is commonly accepted that the Bourquin-Sherman bioassay method (5) originally devised for vitamin G-measures riboflavin rather than any other factor (2). This method provided for depletion of the body stores of young rats by confinement to a specified "vitamin G-free" diet and determination of the growth response of the animals to graded supplementary doses of the material under assay. One Bourquin-Sherman vitamin G unit is now considered

equivalent to 2-5 micrograms (1/1000 milligram) of riboflavin, the probable average value being about 3 micrograms.

Attempts have also been made to devise a physico-chemical method for estimation of this factor. The yellow-green fluorescence of riboflavin solutions—reaching its maximum between pH 6.0 and pH 7.0-is one of the distinctive properties of this compound (6). The measurement of the intensity of this fluorescence appears to be a promising method for estimating the riboflavin content of a suitably prepared solution, within certain ranges of riboflavin concentrations. However, many difficulties such as the complete extraction of riboflavin from foods and the removal of interfering materials from the extract must be overcome before fluorometric methods can be applied to the determination of riboflavin in all foods. However, recent reports demonstrate that fluorometric methods are adaptable to the estimation of riboflavin in certain specific foods and that a reasonable correlation may be expected between values determined by fluorometric and bioassay methods (7).

From available information (8), it is apparent that riboflavin possesses a high degree of heat stability and is not significantly affected by commercial canning procedures. Thus, the many varieties of canned foods available to the consumer provide convenient and economical sources of this dietary essential.

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- 1931. The Vitamins, Second Edition, H. C. Sherman and S. L. Smith, Chemical Catalog Co, New York.
 1939. The Vitamins: A Symposium, page 289. American Medical Assn., Chicago.
 1939. The Vitamins: A Symposium, page 127. American Medical Assn., Chicago.
 1939. U. S. Pub. Health Rpts. 54, 2121. 1939. U. S. Pub. Health Rpts. 54, 790. 1939. J. Am. Med. Assoc. 113, 1697.
- (5) 1931. J. Am. Chem. Soc. 53, 3501.
- (6) 1939. The Vitamins: A Symposium, page 249. American Medical Assn., Chicago.
- (7) 1939. Ind. Eng. Chem. Anal. Ed. 11, 495. 1937. J. Am. Chem. Soc. 59, 1153.
- 1938. Nutrition Abstracts and Reviews 8, 281. 1932. J. Nutrition 5, 307.
- 1932. J. Nutrition 5, 307. 1934. J. Nutrition 8, 449. 1935. J. Am. Diet. Assoc. 11, 343.

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Your suggestions will determine the subject matter of future articles. This is the fifty-sixth in a series, which summarize, for your convenience, the conclusions about canned foods reached by authorities in nutritional research.



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